### SEQUENCE LISTING

- (1) GENERAL INFORMATION:
- (i) APPLICANT: Tobin, James
- (ii) TITLE OF INVENTION: HUMAN INTERLUEKIN-11 RECEPTOR
- (iii) NUMBER OF SEQUENCES: 4
- (iv) CORRESPONDENCE ADDRESS:
- (A) ADDRESSEE: Genetics Institute, Inc.
  - STREET: 87 CambridgePark Drive (B)
    - CITY: Cambridge ပ
      - STATE: MA <u>@</u>
- COUNTRY: USA (E)
  - ZIP: 02140
- (v) COMPUTER READABLE FORM:
- (A) MEDIUM TYPE: Floppy disk
- COMPUTER: IBM PC compatible (B)
- OPERATING SYSTEM: PC-DOS/MS-DOS
- SOFTWARE: PatentIn Release #1.0, Version #1.25 () (i)
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER:(B) FILING DATE:(C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
- REGISTRATION NUMBER: 32,724 (A) NAME: Brown, Scott A.
- REFERENCE/DOCKET NUMBER: G15252 (C)
- (ix) TELECOMMUNICATION INFORMATION:
- (A) TELEPHONE: (617). 498-8224 TELEFAX: (617) 876-5851 (B)

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## (2) INFORMATION FOR SEQ ID NO:1:

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(A) LENGTH: 2456 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: CDNA

(iii) HYPOTHETICAL: NO

(ix) FEATURE:
(A) NAME/KEY: CDS
(B) LOCATION: 734..1999

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

regeceaece	TCGCCCACCC CCAGCCTCTG GCAGCAGCCA GGGCATCTGG ATCTGCTTAA CTACACAGCC	GCAGCAGCCA	GGGCATCTGG	ATCTGCTTAA	CTACACAGCC	09
CCAGCCTGCA	CCAGCCTGCA CCCTAGCCCC ATCCAGCTTC ACAAACTGGA GACCAACGAA GTGTCAAGAG	ATCCAGCTTC	ACAAACTGGA	GACCAACGAA	GTGTCAAGAG	120
CCAGGCCCAG	CCAGGCCCAG CTGAGTGGCC CAAGTAGCCA GACCAAGGAG CCAGGTTCAG GCGAGAAGCC	CAAGTAGCCA	GACCAAGGAG	CCAGGTTCAG	GCGAGAAGCC	180
TGGCAGCCAG	TGGCAGCCAG GGCAGGGGTG GGCCTCAGGG TGGGAGTGCA GGATGGGCTC AGATCCATGA	GGCCTCAGGG	TGGGAGTGCA	GGATGGGCTC	AGATCCATGA	240
TGACACCCTT	TGACACCCTT CCCCCAGGGT GATAAGGTCT GCCTAGGTTA ATCAGAGGCA GTGATAAGCC	GATAAGGTCT	GCCTAGGTTA	ATCAGAGGCA	GTGATAAGCC	300
CTGGACCAGG	CTGGACCAGG TGGGGGTAAA TACCAGAATT CCCAACAGCT GGACTGGAGG GGTTAATGGG	TACCAGAATT	CCCAACAĠCT	GGACTGGAGG	GGTTAATGGG	360
AGTGGCTGAG	AGTGGCTGAG CTGGTGCCAG TGCTTGGTGC CAGGGGTGGG CGCCAAGGGC AGTGGAGGGG	тесттестес	CAGGGGTGGG	CGCCAAGGGC	AGTGGAGGGG	420
GAGTTGCTGG	GAGTIGCIGG CACAGICIGI IGCCICCGGC ITITGIICIG GGCCCIAAGC CCAGGACIGA	TGCCTCCGGC	TTTTGTTCTG	GGCCCTAAGC	CCAGGACTGA	480
GATGGAGGGT	GATGGAGGGT GTGAGGGGGT GTGTGTGTCC GTGTGTGTGT GTGTGTGT GTGCGCGCGC	GTGTGTGTCC	GTGTGTGT	GTGTGTGT	Grecececc	540
ACGCACATGC	ACGCACATGC AAAGCACTGG GTATACAGTG GGAAAGGGGA CCTCAGGTCA GTTCCCGCAG	GTATACAGTG	GGAAAGGGGA	CCTCAGGTCA	GTTCCCGCAG	009

### DOWELTER INSUITE

099	720	769	817	865	913	961	1009	1057	1105	1153
TGATTTCTAA CAGCCTTACC CCACTTGGTG CATCAATTTT TCTCCTAGGA AGCCTCAGTT	TTGGAGAGGA AGAGCCAGGC TTTAGCCTCC CATCTCAGGG GTCGGGGATT TTTGACTCTA	CCTCTCCCCA CAG ATG AGC AGC TGC TCA GGG CTG AGC AGG GTC CTG Met Ser Ser Cys Ser Gly Leu Ser Arg Val Leu 1	GTG GCC GTG GCT ACA GCC CTG GTG TCT GCC TCC CCC TGC CCC CAG Val Ala Val Ala Thr Ala Leu Val Ser Ala Ser Ser Pro Cys Pro Gln 15	GCC TGG GGC CCC CCA GGG GTC CAG TAT GGG CAG CCA GGC AGG TCC GTG Ala Trp Gly Pro Pro Gly Val Gln Tyr Gly Gln Pro Gly Arg Ser Val 30	AAG CTG TGT TGT CCT GGA GTG ACT GCC GGG GAC CCA GTG TCC TGG TTT Lys Leu Cys Cys Pro Gly Val Thr Ala Gly Asp Pro Val Ser Trp Phe 45	CGG GAT GGG GAG CCA AAG CTG CTC CAG GGA CCT GAC TCT GGG CTA GGG Arg Asp Gly Glu Pro Lys Leu Leu Gln Gly Pro Asp Ser Gly Leu Gly 65	CAT GAA CTG GTC CTG GCC CAG GCA GAC AGC ACT GAT GAG GGC ACC TAC His Glu Leu Val Leu Ala Gln Ala Asp Ser Thr Asp Glu Gly Thr Tyr 80	ATC TGC CAG ACC CTG GAT GGT GCA CTT GGG GGC ACA GTG ACC CTG CAG Ile Cys Gln Thr Leu Asp Gly Ala Leu Gly Gly Thr Val Thr Leu Gln 95	CTG GGC TAC CCT CCA GCC CGC CCT GTT GTC TCC TGC CAA GCA GCC GAC Leu Gly Tyr Pro Pro Ala Arg Pro Val Val Ser Cys Gln Ala Ala Asp 110	TAT GAG AAC TTC TCT TGC ACT TGG AGT CCC AGC CAG ATC AGC GGT TTA Tyr Glu Asn Phe Ser Cys Thr Trp Ser Pro Ser Gln Ile Ser Gly Leu 125

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1201	1249	1297	1345	1393	1441	1489	1537	1585	1633
GGA GCT Gly Ala 155	CCA CAG Pro Gln	TTC TGG Phe Trp	GCC AGC Ala Ser	GAC CCA Asp Pro 220	CGC CTG Arg Leu 235	CAC TTC His Phe	GCC TGG Ala Trp	GCT GTG Ala Val	CTA GAT Leu Asp 300
CTA Leu	TGC Cys	GAG a Glu	GGT 1 Gly	CCT J Pro	C CGA	3 CCC 1 Pro 250	r cca s Pro	A GAT r Asp	rrr o Phe
A GTC	G CCA	GCT Ala 185	A CTG	3 CGC	c ccc r Pro	c cAG s Gln	3.CAT n His 265	c ACA e Thr 0	g GAC g Asp
ACA Thr	TGG Trp	. GGG	CCA Pro 200	rrg Leu	r TAC	3 TGC	G CAG	3 ATC I Ile 280	CGG A Arg
AAG Lys	CCC	CAC His	AAC Asn	ATC Ile 215	GGT	CCG	GCG	GTG Val	GCC Ala 295
AAG Lys 150	666 61y	GTC Val	GTG Val	AGC	CCA Pro 230	TGG	CCG	GAG	AGT
AGG Arg	ACA Thr 165	GTT Val	GÀG Glu	CAG Gln	GTA Val	TCC Ser 245	CGT Arg	GAG Glu	GTC Val
TAC Tyr	TCC Ser	TGT Cys 180	ACT Thr	TTG	TCA	GCC Ala	TAC TYr 260	CTG	CGA Arg
TCC	CCA Pro	CGC Arg	GTG Val 195	AGC Ser	GAG Glu	CCT	CAG	GGA Gly 275	GTA Val
ACC Thr	AGT Ser	GCC Ala	AAT Asn	GTG Val 210	GTA Val	TAC Tyr	TTG Leu	GCT Ala	GCT Ala 290
CTC Leu 145	AGG Arg	GCT	ATT Ile	GAT Asp	CGG Arg 225	ACA Thr	CGT Arg	CCA Pro	CAT His
TAC	AGG Arg 160	GGG G1γ	CGG Arg	CTG Leu	CTG	TGG Trp 240	TTC	GAG Glu	CCC
CGC Arg	CAG Gln	CTA Leu 175	TAC Tyr	CTG Leu	GGC G1y	AGC Ser	AAG Lys 255	GTG Val	CTG
ACC Thr	AGC Ser	CCC	CAG Gln 190	CGC Arg	CAG Gln	GCC Ala	CTC	ACG Thr 270	666 Gly
CCC	GAT Asp	GAT Asp	AGC Ser	ACA Thr 205	CCC Pro	CGA	CTG Leu	TCC	GCT Ala 285

TGGGG 2319	AGGTGTGAAT 2379	sacece 2439	2456					Ala	Pro	Cys	· Glu	. Val 80	Thr	Pro
ATGTAG GTGCC	GGGGTTGTGC AGGTG	AAAAAA AGTCC						Val Ala Val 15	Gln Ala Trp Gly 30	Lys Leu Cys 45	Arg Asp Gly Glu	Gly His Glu Leu Val 80	Ile Cys Gln 95	Leu Gly Tyr 110
CATGTGTCTG TGAGGCAGGG AACATGTATT CTCTGCATGC ATGTATGTAG GTGCCTGGGG	recerraca agg	ACTCAGAAAA AAAAAAAAA AGTCGACGCG			acids		Q ID NO:2:	Arg Val Leu 10	Cys Pro	Gly Arg Ser Val	. Ser Trp Phe 60	Gly Leu 75	ı Gly Thr Tyr 90	Leu Asp Gly Ala Leu Gly Gly Thr Val Thr Leu Gln Leu 100
ACATGTATT CTO	TCTTGGCCTT TC	TGGAGATTAT AC		ID NO:2:	CE CHARACTERISTICS LENGTH: 422 amino TYPE: amino acid TOPOLOGY: linear	E: protein	DESCRIPTION: SEQ	Gly Leu Ser	Ser Ser Pro 25	Gln Pro Gly 40	Asp Pro Val 55	Pro Asp Ser	Ser Thr Asp Glu Gly Thr 90	Gly Thr Val
TGAGGCAGGG AJ	GGTCCTTGGC TO	AGGAAGTTCT TO	CCTGCAG	TION FOR SEQ	SEQUENCE CHARACTERISTICS (A) LENGTH: 422 amino (B) TYPE: amino acid (D) TOPOLOGY: linear	MOLECULE TYPE:	SEQUENCE DES	Ser Cys Ser 5	Val Ser Ala 20	Gln Tyr Gly Gln Pro	Val Thr Ala Gly Asp 55	Lys Leu Leu Gln Gly Pro Asp Ser 70	Ala Asp 85	, Ala Leu Gly 100
CATGTGTCTG	AGTGTGTGTG	AAAGAGAATA	GCCGCGAATT	(2) INFORMATION FOR	(i)	(ii)	(xi)	Met Ser Ser 1	Thr Ala Leu	Pro Gly Val	Pro Gly Val 50	Pro Lys Leu 65	Leu Ala Gln	Leu Asp Gly

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Tyr Glu Asn Phe 125	Tyr	Arg 160
Asn	Thr Arg	Val Leu Gly Ala Asp Ser Gln 155
Glu	Thr	Ser
Tyr 125	Pro	Asp
Asp	Ser Gln Ile Ser Gly Leu 135	Ala
Ala	Glγ	Gly 155
Cys Gln Ala Ala Asp 120	Ser	Leu
Gln	Ile	Val
Cys 120	Gln	s Thr Ve
Ser	Ser 135	Lys
Val	Pro	Arg Lys Lys 150.
Val	Ser	Arg
Pro Val Val Ser	Thr Trp Ser Pro	Ser Tyr
Arg 115	Thr	Ser
Ala	Cys 130	Thr
Pro Ala Arg 115	Ser Cys 130	Leu Thr 9 145

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Glu Pro Gln Val Asp Ser Pro Ala Pro Pro Arg Pro Ser Leu Gln Pro 340 335 325

His Pro Arg Leu Leu Asp His Arg Asp Ser Val Glu Gln Val Ala Val 355

Leu Ala Ser Leu Gly Ile Leu Ser Phe Leu Gly Leu Val Ala Gly Ala

Leu Ala Leu Gly Leu Trp Leu Arg Leu Arg Arg Gly Gly Lys Asp Gly 385 380 375

Ser Pro Lys Pro Gly Phe Leu Ala Ser Val Ile Pro Val Asp Arg Arg 415

Pro Gly Ala Pro Asn Leu

(2) INFORMATION FOR SEQ ID NO:3:

SEQUENCE CHARACTERISTICS: (ï,

(A) LENGTH: 1714 base pairs

STRANDEDNESS: double (B) TYPE: nucleic acid (C) STRANDEDNESS: doubl (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: CDNA

(iii) HYPOTHETICAL: NO

(ix) FEATURE:

LOCATION: 34..1359 (A) NAME/KEY: CDS (B) LOCATION: 34. (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

54	102	150	198	246	294	342	390	438	486
TTCTTAGCCT GATAGGAGGA AGTCTTGGAG GCC ATG GCA CTC AGT CAC TGT GAT Met Ala Leu Ser His Cys Asp 1	TAT CAA GAT GAG CAG CTG CTC AGG GCT GAC CAG GGT CCT GGT GGC Tyr Gln Asp Glu Gln Gln Leu Leu Arg Ala Asp Gln Gly Pro Gly Gly 10	CGT GCT ACA GCC CTG GTG TCT TCC TCC CCC TGC CCC CAA GCT TGG Arg Ala Thr Ala Leu Val Ser Ser Ser Ser Pro Cys Pro Gln Ala Trp 25	GGT CCT CCA GGG GTC CAG TAT GGA CAA CCT GGC AGG CCC GTG ATG CTG Gly Pro Pro Gly Val Gln Tyr Gly Gln Pro Gly Arg Pro Val Met Leu 40	TGC TGC CCC GGA GTG AGT GCT GGG ACT CCA GTG TCC TGG TTT CGG GAT Cys Cys Pro Gly Val Ser Ala Gly Thr Pro Val Ser Trp Phe Arg Asp 60	GGA GAT TCA AGG CTG CTC CAG GGA CCT GAC TCT GGG TTA GGA CAC AGA Gly Asp Ser Arg Leu Leu Gln Gly Pro Asp Ser Gly Leu Gly His Arg 80	CTG GTC TTG GCC CAG GTG GAC AGC CCT GAT GAA GGC ACT TAT GTC TGC Leu Val Leu Ala Gln Val Asp Ser Pro Asp Glu Gly Thr Tyr Val Cys 90	CAG ACC CTG GAT GGT GTA TCA GGG GGC ATG GTG ACC CTG AAG CTG GGC GIn Thr Leu Asp Gly Val Ser Gly Gly Met Val Thr Leu Lys Leu Gly 105	TTT CCC CCA GCA CGT CCT GAA GTC TCC TGC CAA GCG GTA GAC TAT GAA Phe Pro Pro Ala Arg Pro Glu Val Ser Cys Gln Ala Val Asp Tyr Glu 120	AAC TTC TCC TGT ACT TGG AGT CCA GGC CAG GTC AGC GGT TTG CCC ACC Asn Phe Ser Cys Thr Trp Ser Pro Gly Gln Val Ser Gly Leu Pro Thr 140

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534	582	630	678	726	774	822	870	918	996
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AGT Ser	CCT	GAG Glu	TGC Cys 215	CAA Gln	GCC	CTC	ACG Thr	GGG Gly 295	GGC G1у
GAG Glu	GAC Asp	AGT Ser	ACG Thr	CCC Pro 230	CAT His	CTG	TCC	GCT Ala	GCT Ala 310
GCT Ala 165	CAG Gln	TGG Trp	AGC	CCA Pro	CTG Leu 245	TTT Phe	TGG Trp	GTG Val	GAT Asp
GGA Gly	CCA Pro 180	TTC Phe	GCC	GAT Asp	CGC Arg	CAC His 260	GCC Ala	GCT Ala	CTG
CCA	TGT Cys	GAG Glu 195	GGT G1y	CCT	AGA Arg	CCC Pro	CCA Pro 275	GAT Asp	TTT Phe
CTG Leu	CCG	GCA Ala	CTG Leu 210	CGT Arg	CCG Pro	CAA Gln	CAT His	ACA Thr 290	GAC Asp
ACG Thr	TGG Trp	GGG G1y	CCA	TTG Leu 225	TAC Tyr	CGC Arg	CAG Gln	ATA Ile	AGG Arg 305
AAG Lys 160	CCT	CAT His	AAC Asn	ATC Ile	GGT G1y 240	CGT Arg	GCA Ala	GTG Val	GCC Ala
AAG Lys	GGG G1y 175	GTC Val	GTG Val	AGC Ser	CCT	TGG Trp 255	CCA Pro	GAA Glu	AGT
AGG Arg	ACC Thr	GTG Val 190	GAG Glu	CAG Gln	GTA Val	TCC	CGA Arg 270	GAG Glu	GTC Val
TAC Tyr	TCC	TGT	ACC Thr 205	TTA Leu	TCC	GCC Ala	TAC	TTG Leu 285	CGA Arg
TCC	CCA Pro	CGA Arg	GTG Val	AGA Arg 220	GAA Glu	CCT	CAA Gln	GGC Gly	GTA Val 300
ACT Thr 155	AGT Ser	TCC	AAT Asn	GTG Val	GTG Val 235	TAC Tyr	TTG	ATT Ile	GCG Ala
CTT Leu	GAA Glu 170	GCC	ATC Ile	GAT Asp	CGG Arg	ACA Thr 250	CGG Arg	CCC Pro	CAC His
TAC	AGG Arg	GAG Glu 185	CGG Arg	CTG	CTG	TGG Trp	TTC Phe 265	GAG Glu	CCA
CGC	CAG Gln	CTG	TAC Tyr 200	CTA	GGA Gly	AGC	AAG Lys	GTG Val 280	CTG

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ACC TGG AGC GCC TGG AGC CCA GAG GCC TGG GGT ACT CCT AGC Thr Trp Ser Ala Trp Ser Pro Glu Ala Trp Gly Thr Pro Ser 315	ACT Thr
CCC CTG CAG GAT GAG ATA CCT GAT TGG AGC CAG GGA CAT GGP Pro Leu Gln Asp Glu Ile Pro Asp Trp Ser Gln Gly His Gly 330	GGA Gly
CTA GAG GCA GTA GTA GCT CAG GAG GAC AGC CCG GCT CCT GCA Leu Glu Ala Val Val Ala Gln Glu Asp Ser Pro Ala Pro Ala 345	GCT Ala 355
TCC TTG CAG CCG GAC CCA AGG CCA CTT GAT CAC AGG GAC CCC Ser Leu Gln Pro Asp Pro Arg Pro Leu Asp His Arg Asp Pro 360	AGG Arg
CAA GTA GCT GTG TTA GCG TCT CTG GGA ATC TTC TCT TGC CTT Gln Val Ala Val Leu Ala Ser Leu Gly Ile Phe Ser Cys Leu 380	TCT
GCT GTT GGA GCT CTG GCA CTG GGG CTC TGG CTG AGG CTG AGA Ala Val Gly Ala Leu Ala Leu Gly Leu Trp Leu Arg Leu Arg 400	AGG Arg
GGG AAG GAT GGA CCG CAA AAA CCT GGG CTC TTG GCA CCC ATC Gly Lys Asp Gly Pro Gln Lys Pro Gly Leu Leu Ala Pro Met 410	GCA Ala
GTG GAA AAG CTT CCA GGA ATT CCA AAC CTG CAG AGG ACC CCA Val Glu Lys Leu Pro Gly Ile Pro Asn Leu Gln Arg Thr Pro 435	AGG Arg 435
TTC AGC TGATTTCATC TGTAACCCGG TCAGACTTGG GGTGGTTAAA AGGACAGGCA Phe Ser 440	TGGTTAAA AGGACAGGCA
GAAAGAGGCG GGGCAGTGGA TCCCTGTGGA TGGAGGTCTC AGCTGAAAGT	
TTCTTTGACA CCTATACTCC AAACTTGCTG CCGGCTGAAG GCTGTCTGGA	

	p Ser Gly Leu Gly His Arg Leu Val Leu Ala Gln Val Asp Ser P 90 95 p Glu Gly Thr Tyr Val Cys Gln Thr Leu Asp Gly Val Ser Gly G
· •	Ser Trp Phe Arg Asp Gly Asp Ser Arg L 70
	Pro Gly Arg Pro Val Met Leu Cys Cys Pro Gly Val Ser Ala Gly Thr 50
	Ser Pro Cys Pro Gln Ala Trp Gly Pro Pro Gly Val Gln Tyr Gly Gln 35
	Ala Asp Gln Gly Pro Gly Gly Arg Ala Thr Ala Leu Val Ser Ser Ser 20
	Met Ala Leu Ser His Cys Asp Tyr Gln Asp Glu Gln Gln Leu Leu Arg 1
	(11) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
٠.	CHARAC VGTH: 4 PE: ami
	(2) INFORMATION FOR SEQ ID NO:4:
1714	TTTTGGA
1706	TGCGGTCTTG GGCTTGGCCC TTCTGGGAAG TGTGAAGAGT TGAAATAAAA GAGACGGAAG
1646	TGTATGTGAG ACAGGGAGCA AAAGTTCTCT GCATGTGTGT ACAGATGATT GGAGAGTGTG
1586	CCTGAGGTGG AAGTCCACCT GAGGAATGTG TACAGAAGTC TGTGTTCCTG TGATCGTGTG

Met Val Thr Leu Lys Leu Gly Phe Pro Pro Ala Arg Pro Glu Val Ser 115	5
Val	ć
Glu	į
Pro 125	É
Arg	É
Ala	
Pro	5
Pro	4
Phe 120	
Glγ	;
Leu	Ę
Lys	2
Leu	[47]
Thr 115	מ
Val	ני
Met	יינס ייים ייים שיים ביים ביים ביום ביום ביום ביום ביום ב

ASP Tyr Glu Asn Phe Ser Cys Thr Trp Ser Pro Gly 135 Cys Gin Ala 130

Thr Arg Tyr Leu Thr Ser Tyr Arg Lys Lys 155 Pro 150 Gln Val Ser Gly Leu 145

Thr Leu Pro Gly Ala Glu Ser Gln Arg Glu Ser Pro Ser Thr Gly Pro 165 Trp Pro Cys Pro Gln Asp Pro Leu Glu Ala Ser Arg Cys Val His 180

Gly Ala Glu Phe Trp Ser Glu Tyr Arg Ile Asn Val Thr Glu Val Asn 205

Pro Leu Gly Ala Ser Thr Cys Leu Leu Asp Val Arg Leu Gln Ser Ile 210

Leu Arg Pro Asp Pro Pro Gln Gly Leu Arg Val Glu Ser Val Pro Gly 225

Tyr Pro Arg Leu His Ala Ser Trp Thr Tyr Pro Ala Ser Trp Arg 255

Arg Gln Pro His Phe Leu Lys Phe Arg Leu Gln Tyr Arg Pro Ala 260

Gln His Pro Ala Trp Ser Thr Val Glu Pro Ile Gly Leu Glu Glu Val 275 285

Ile Thr Asp Ala Val Ala Gly Leu Pro His Ala Val Arg Val Ser Ala
290

Trp Ser Pro Glu Ala 320 Arg Asp Phe Leu Asp Ala Gly Thr Trp Ser Ala 305

Trp Gly Thr Pro Ser Thr Gly Pro Leu Gln Asp Glu Ile Pro Asp Trp

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Asp	Leu	$Gl_{y}$	Leu 400	Gly	Asn	
Glu	Pro	Leu	Gly	Pro 415	Pro Asn	
Gln 350	Arg	Ser	Leu	Lys	Ile 430	
Ala	Pro 365	Ala	Ala	Pro Gln Lys	Gly	
Val	Asp	Leu 380	Leu	Pro	Pro	
Val	Pro	Val	Ala 395	Gly	Leu	
Ala	Gln	Ala	Glγ	Asp Gly 410	Val Glu Lys Leu Pro Gly Ile 425	
G1u 345	Leu	Val	Val	Ĺys	Glu 425	Ser
Leu	Ser 360	Gln	Ala	Gly	Val	Phe 440
Gln	Pro Ser Leu Gln Pro Asp Pro Arg 360	Glu 375	Leu Gly Leu Ala Val Gly Ala Leu Ala Leu Gly Leu 390	Ser	Pro	Asn
Gln	Pro Ala Arg	Leu	G1y 390	Arg	Ile	Glu
Gly	Ala	Pro	Leu	Arg 405	Pro Met 420	Pro
His 340	Pro	Asp	Cys	ren	Pro 420	$\mathtt{Thr}$
Glγ	Ala 355	Arg	Ser	Arg	Ala	Arg 435
Ser Gln Gly His Gly Gln Gln Leu Glu Ala Val Ala Gln 340 340 340	Pro	Asp His Arg Asp Pro Leu Glu Gln Val Ala Val Leu Ala 370	Phe	Trp Leu Arg Leu Arg Arg Ser Gly Lys 405	Leu Leu Ala	Leu Gln Arg Thr Pro Glu Asn 435
Ser	Ser	Asp	11e 385	Trp	Leu	Геп



